

⑧

## Patent Abstracts of Japan

PUBLICATION NUMBER : 09200662  
PUBLICATION DATE : 31-07-97

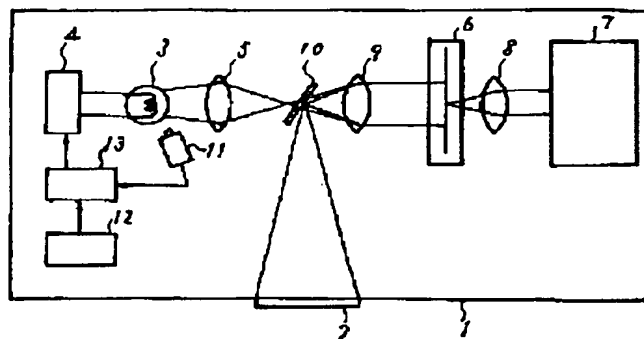
APPLICATION DATE : 17-01-96  
APPLICATION NUMBER : 08006140

APPLICANT : MITSUBISHI ELECTRIC CORP;

INVENTOR : KANEKO TETSUAKI;

INT.CL. : H04N 5/74 G02F 1/133

TITLE : PROJECTION TYPE LIQUID CRYSTAL  
DISPLAY DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To suppress reduction in a luminous quantity due to a secular change by providing an automatic adjustment device comparing a setting value of a light source setting circuit with a sensor output and adjusting automatically the luminous quantity of a light source depending on the comparison value.

SOLUTION: A light emitted from a light source 3 is projected to a liquid crystal cell 6 via a condenser lens 5 and a reflected light from the cell 6 is obtained. The reflected light is controlled by a laser beam controller 7 and a write lens 8 and the reflected light is displayed on a screen 2 via a projection lens 9 and a transmission mirror 10. The luminous amount of the light source 3 is controlled automatically by an output adjustment circuit that receives the measurement value of the luminous level of the light source 3 by a luminance sensor 11 and an output of a setting storage circuit 12 to which a proper level is set in advance. Then the service life of the light source 3 is improved by adjusting the luminous quantity of the light source 3 in response to the state of the light source 3 automatically and manhours for replacement of light source are reduced.

COPYRIGHT: (C)1997,JPO